

FIG. 1

FIG. 2A

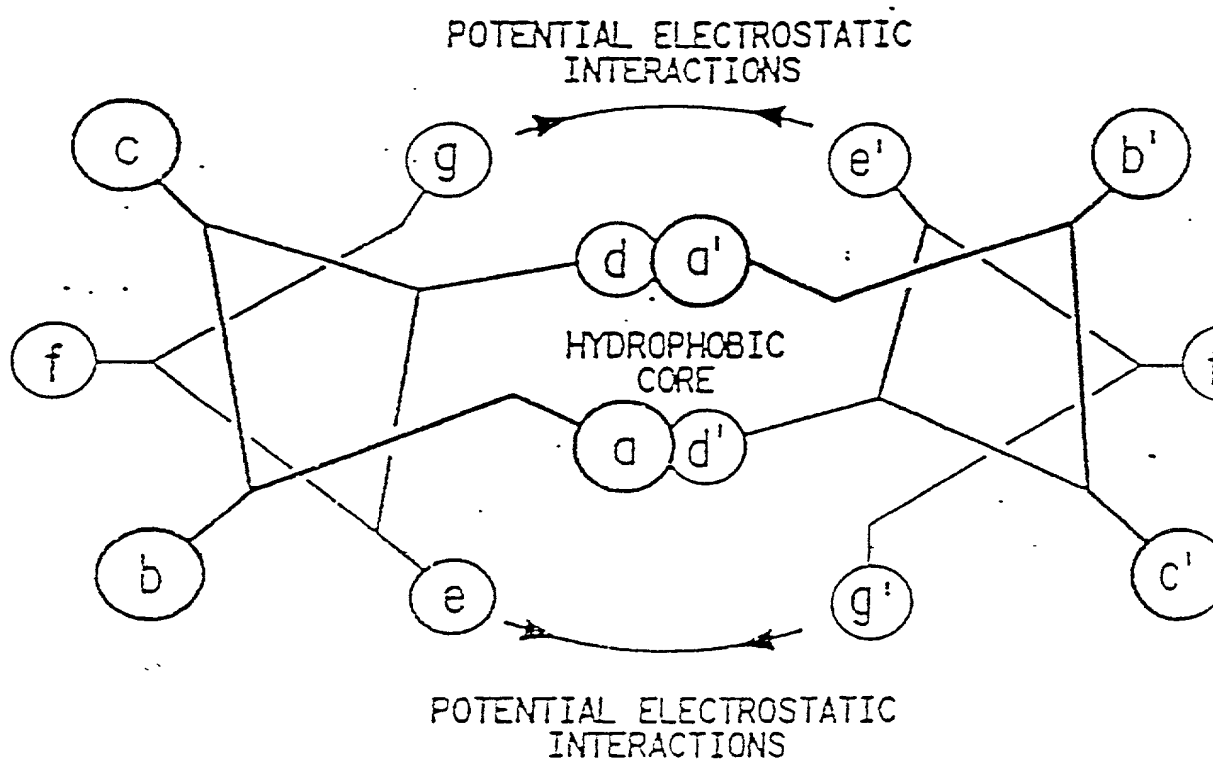


FIG. 2B

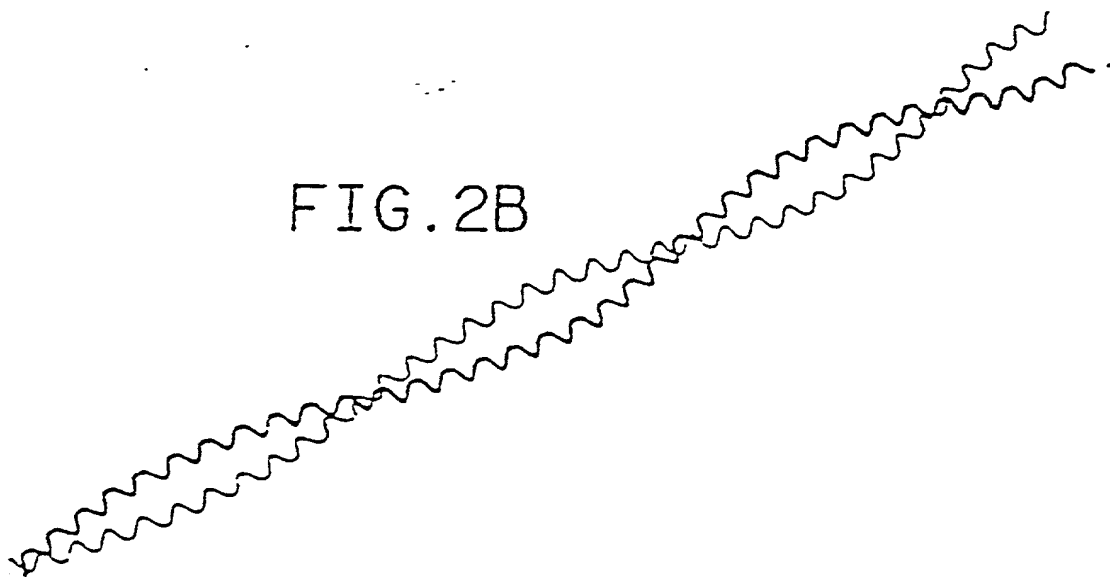


FIG.3

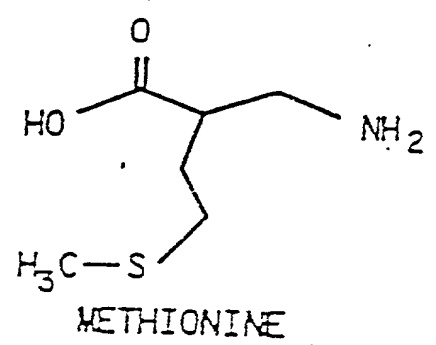
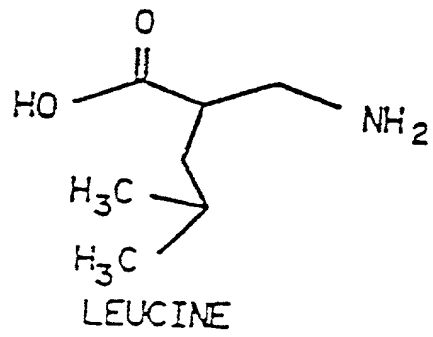


FIG. 4a

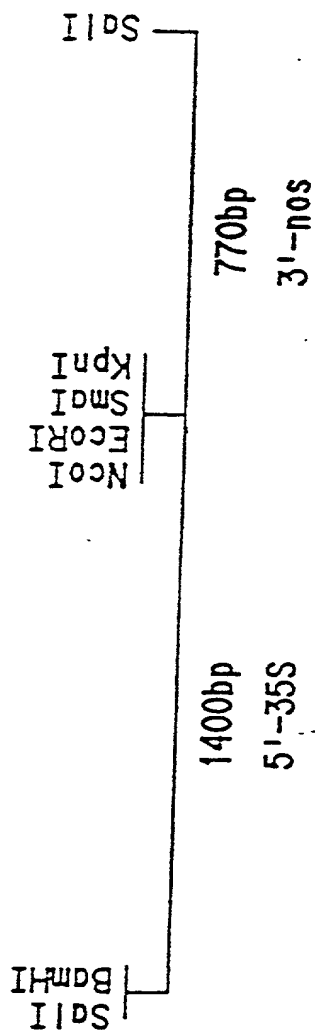


FIG. 4b

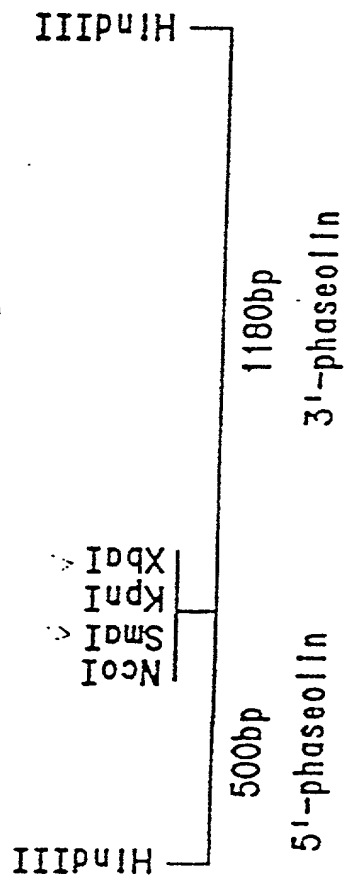
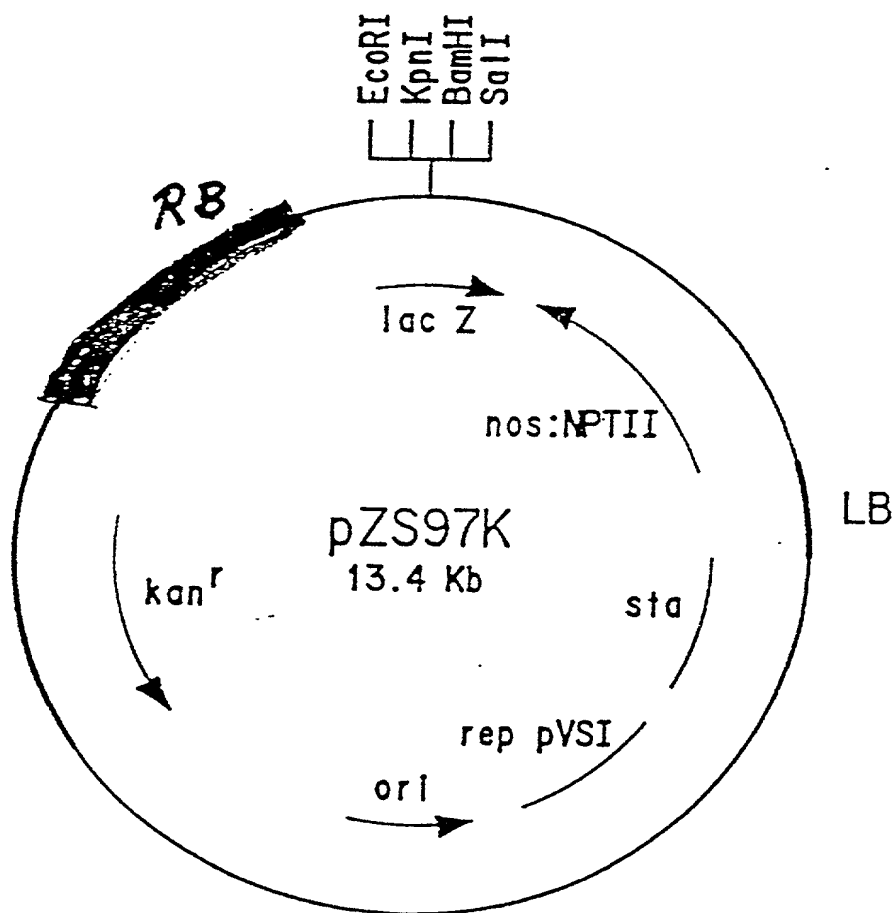
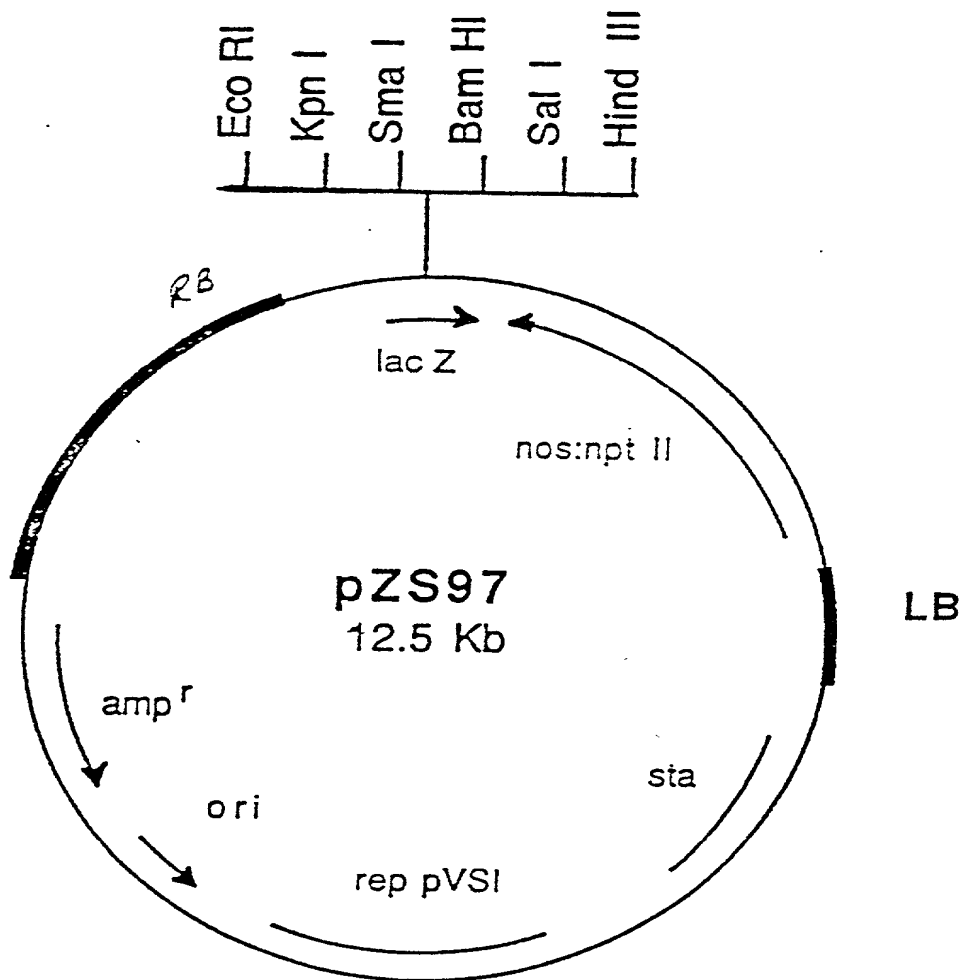


FIG. 5



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FIG. 6



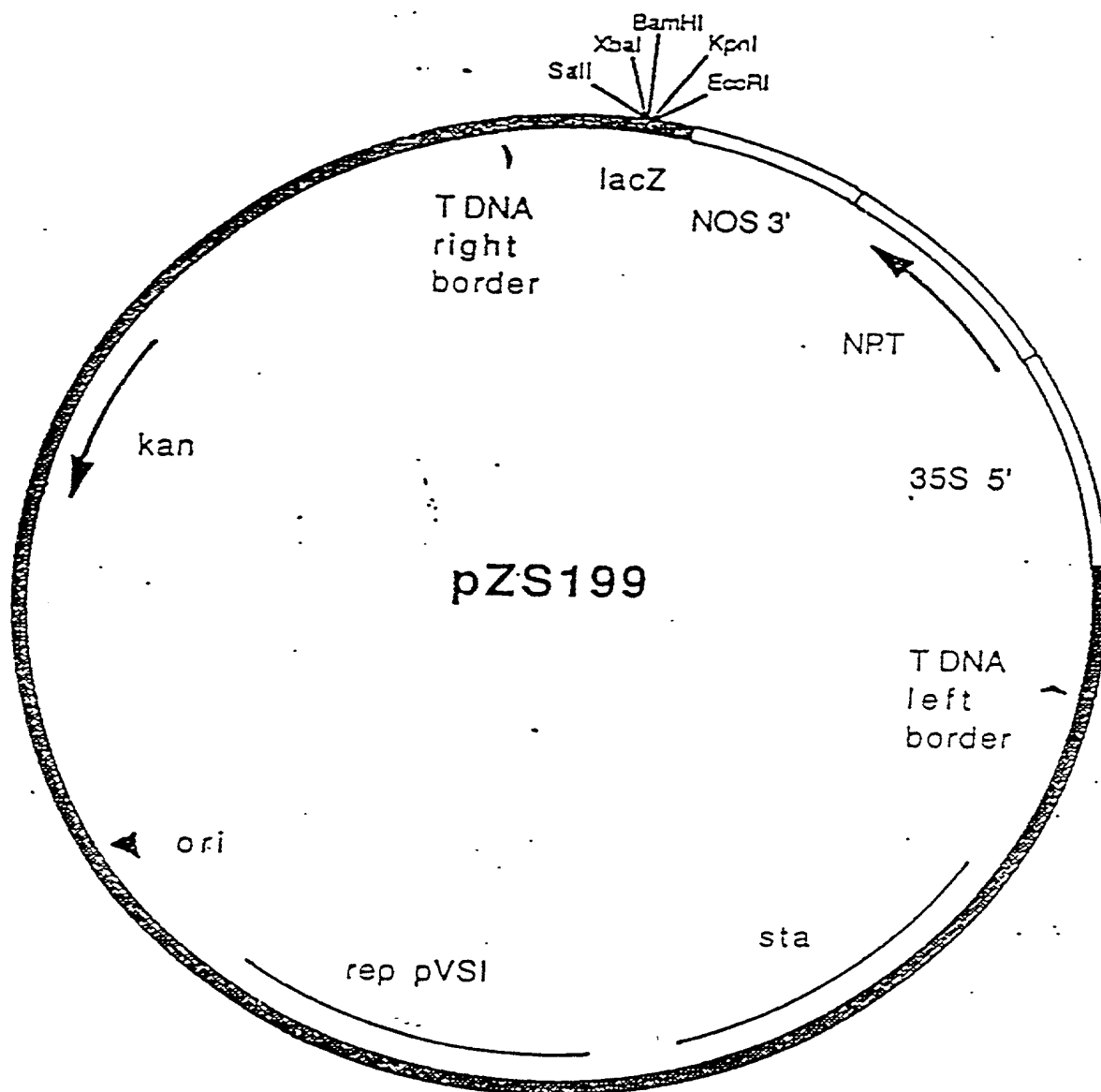


FIG. 7A

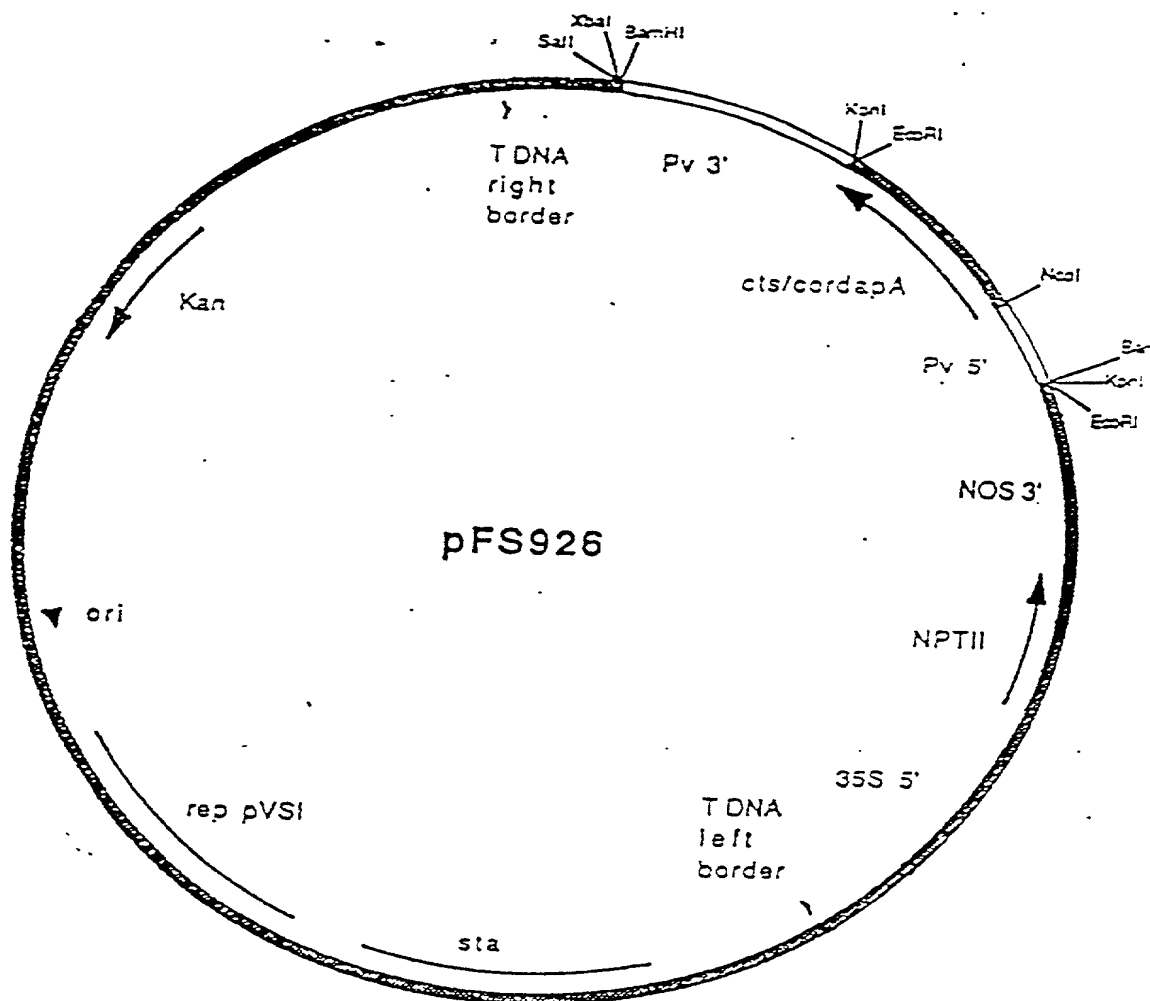


FIG. 7B

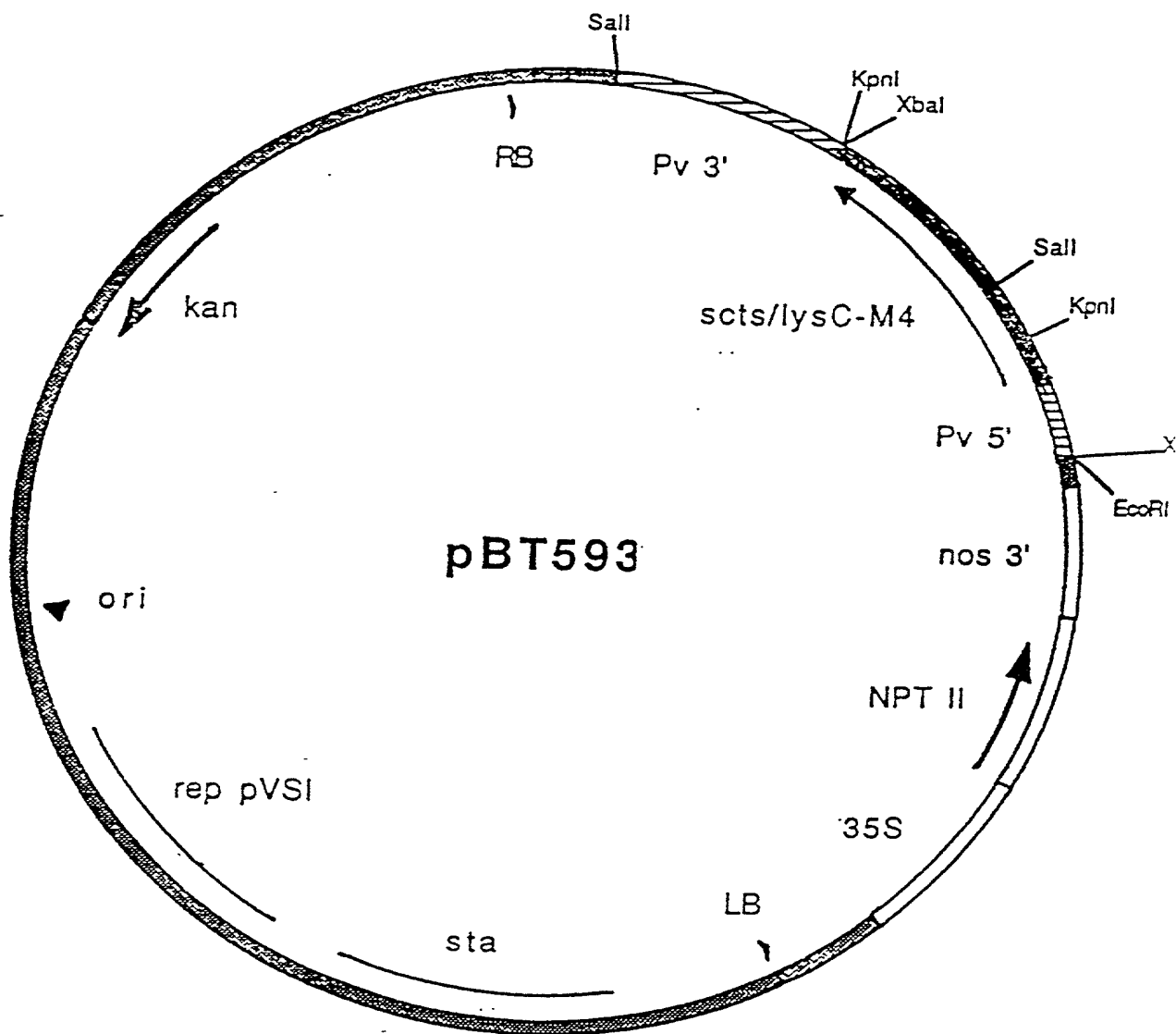


FIG. 7C

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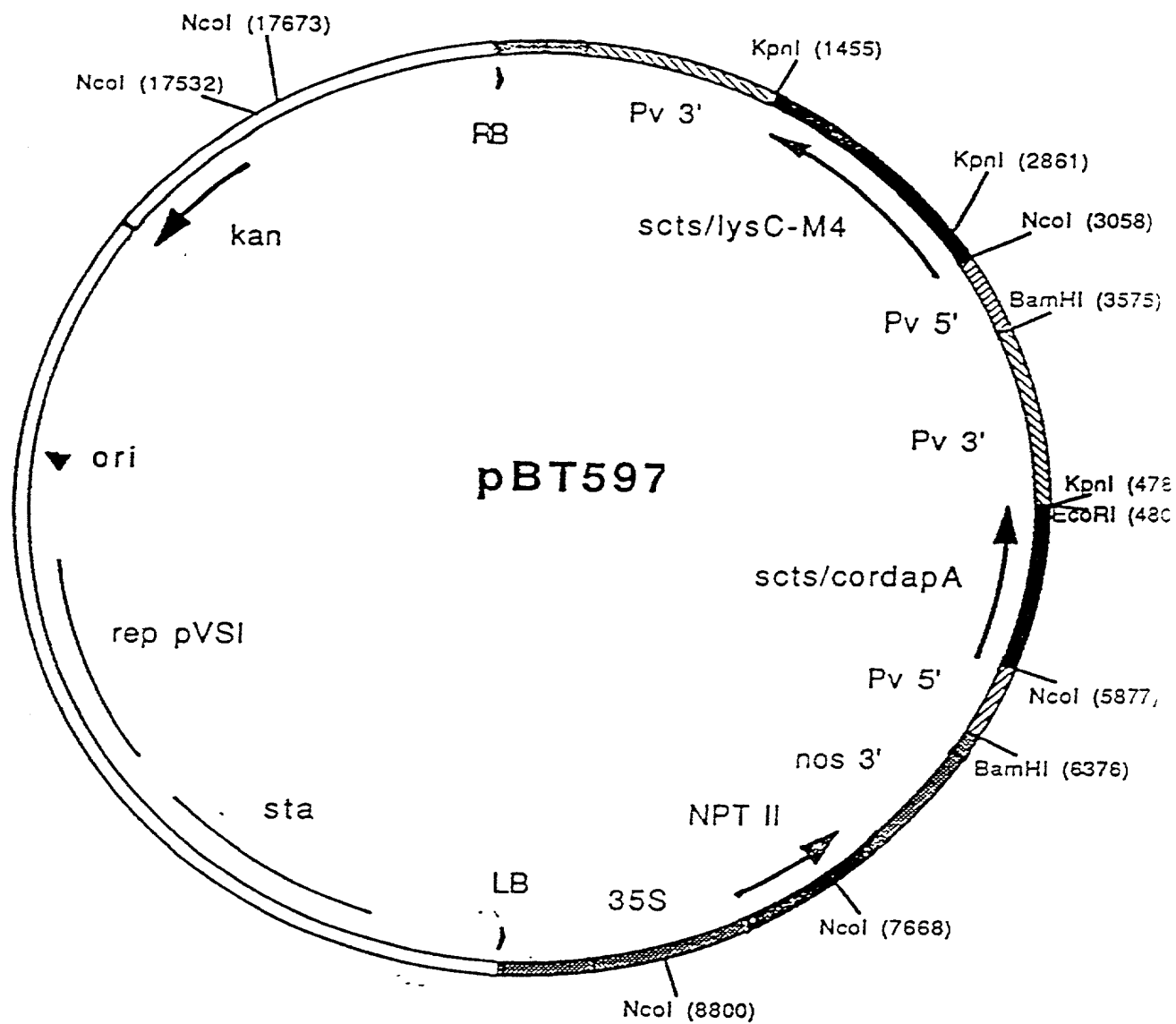


FIG. 7D

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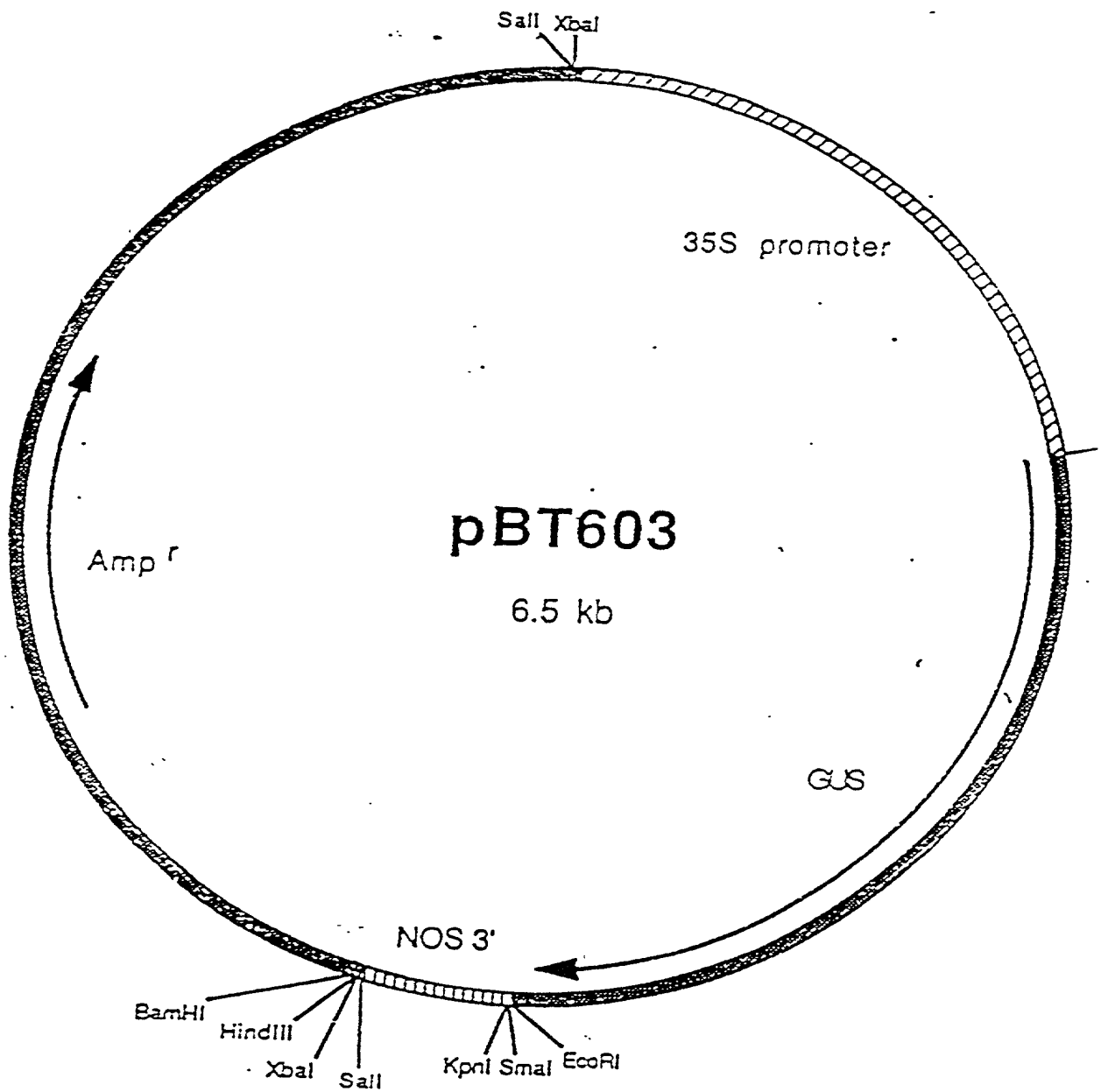


FIG. 8A

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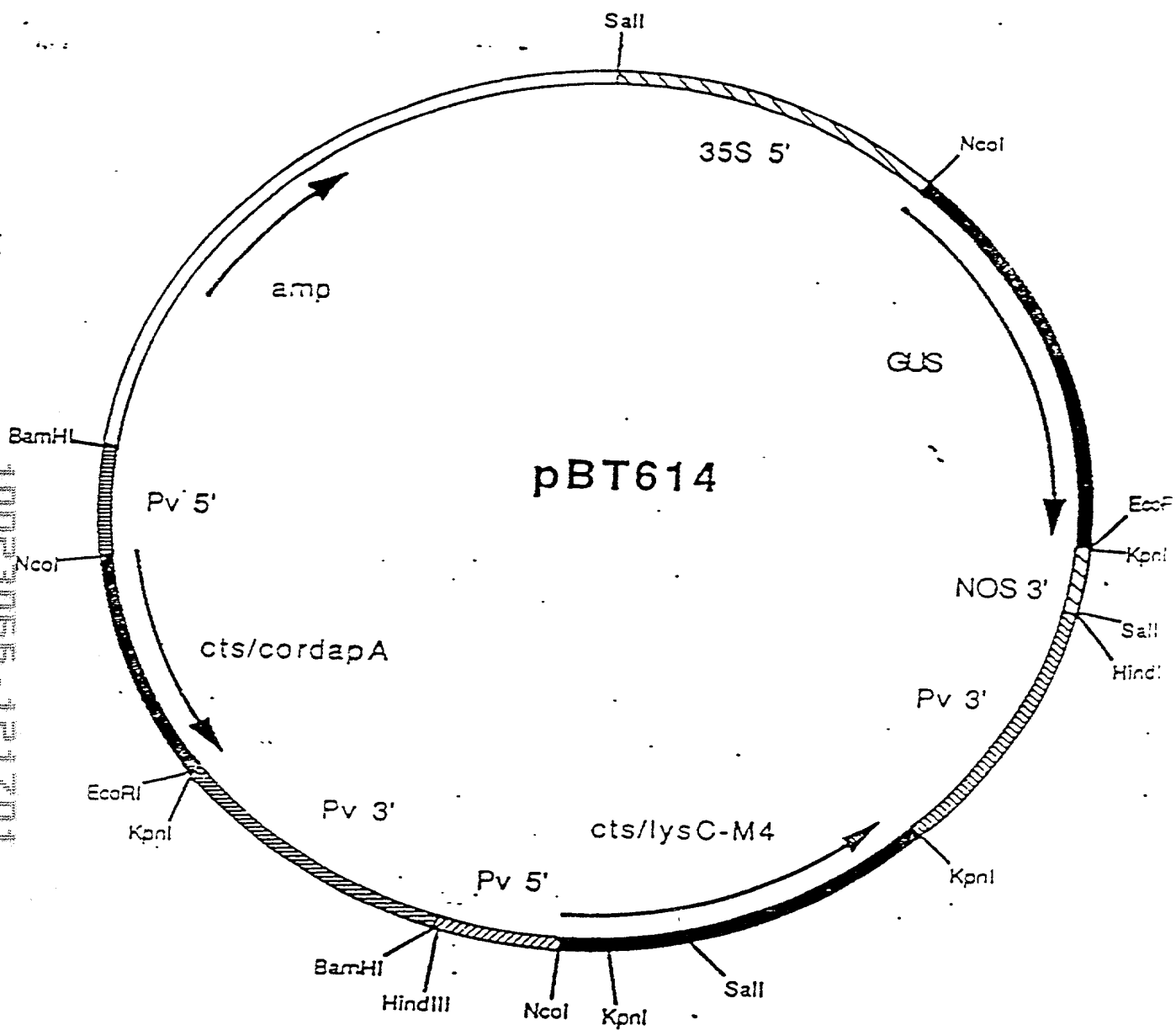


FIG. ~~6B~~ 8B

~~6/14~~

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FIG. 7

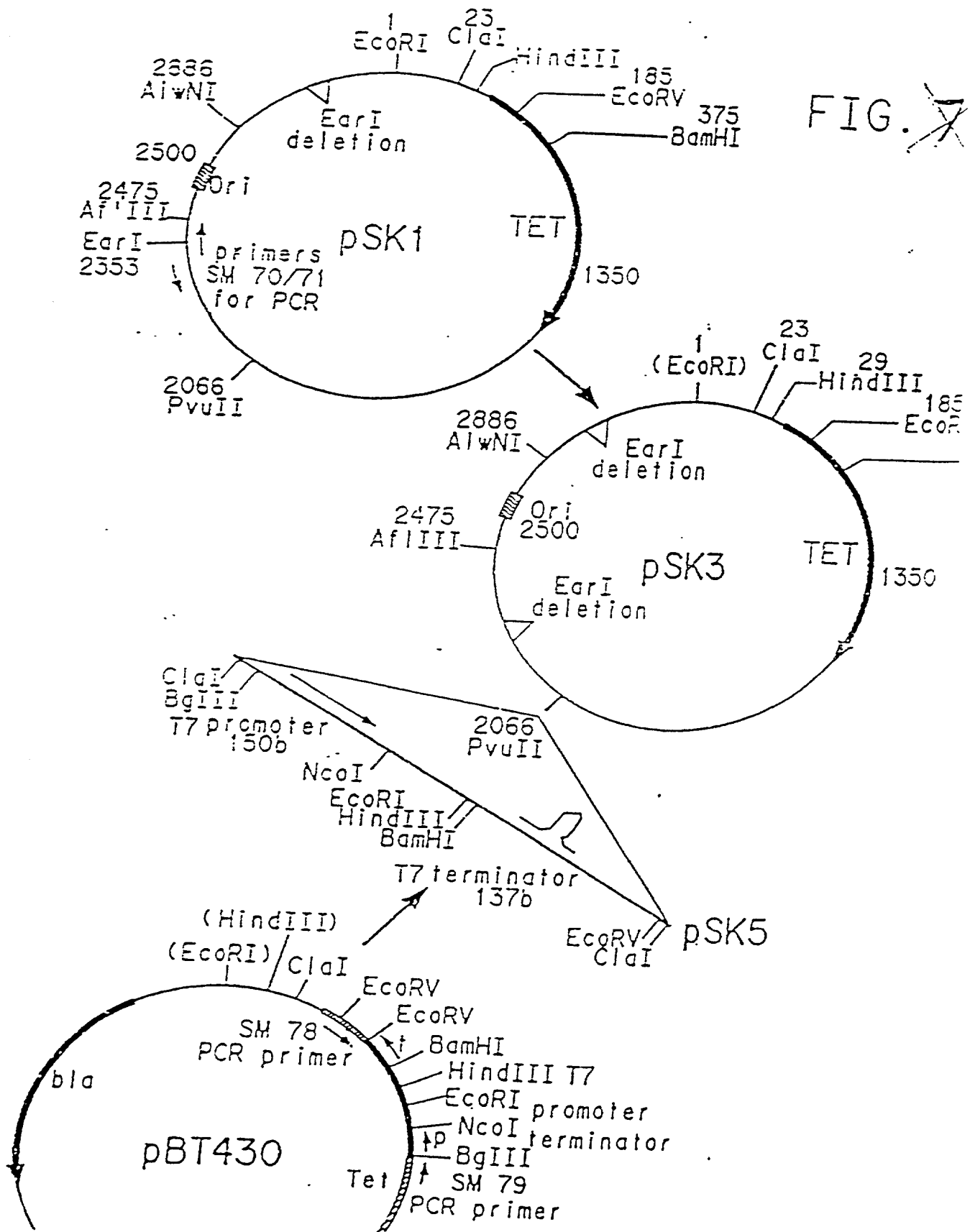


FIG. 8 10

NCOI
 CATGAGGAGAGATGAAGGC GATGAGAGAGAGATGAAGCGCGATAGTACCGG
 CTCTCTTCTACT TCCGCTA CCTTCTC TTCGACTTCGCACTATCCATGGCTTAA
 M E E K M K A M E E K M K A

EARI

ASP718ECORI

↓
 LIGATE OLIGOS

GATGGAGGAGAAGATGAAGGC

CCTCTCTTCTACTTCCGCTA

M E E K M K A

↓
 LIGATE TO EARI CUT VECTOR

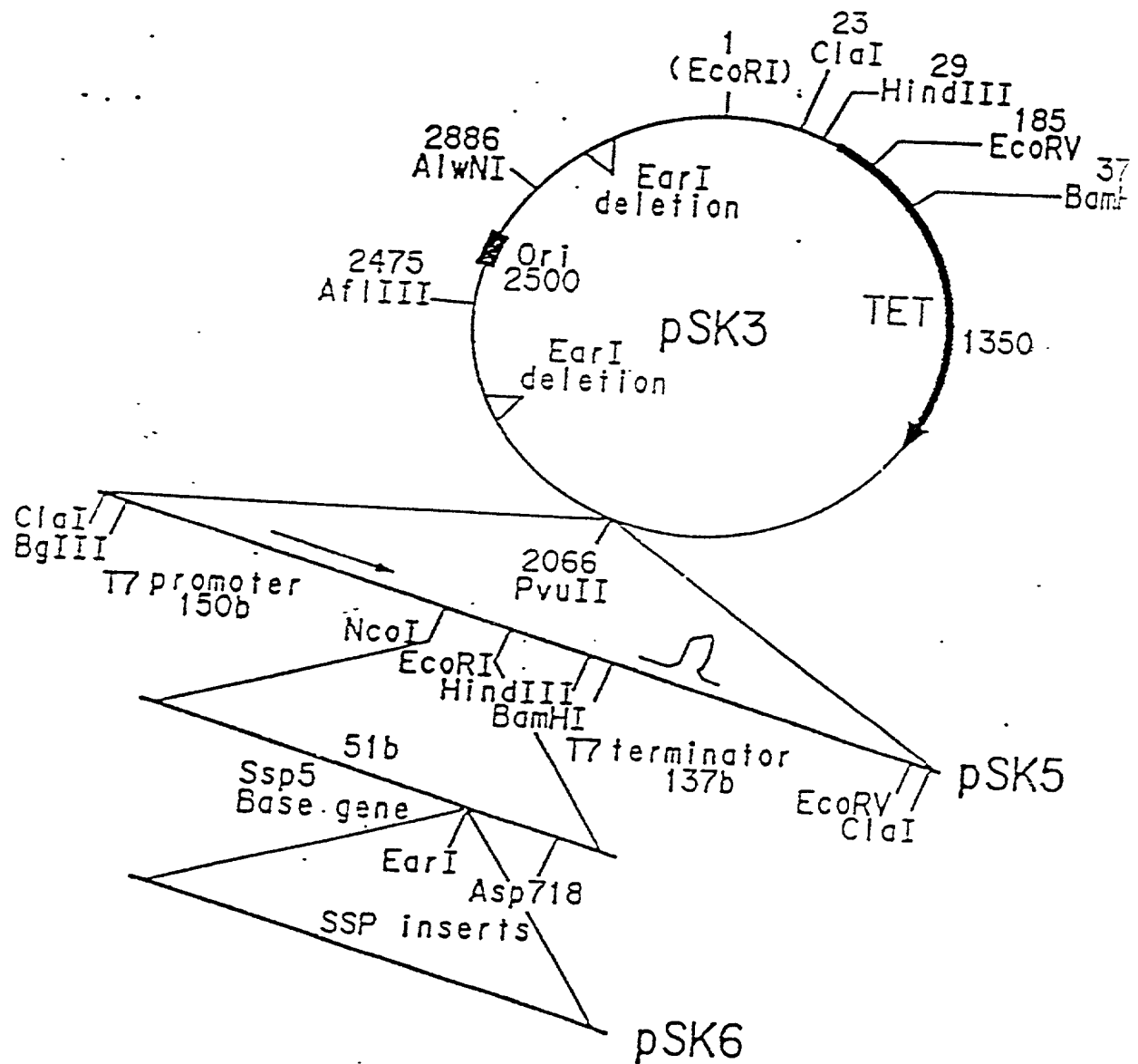
NCOI

CATGAGGAGAGATGAAGGC GATGGAGGAGAAGATGAAGGC GATGAGAGAGAGATGAAGCGCGATAGTACCGG
 CTCTCTTCTACT TCCGCTA CCTCTCTTCTACTTCCGCTA CCTTCTC TTCGACTTCGCACTATCCATGGCTTAA
 M E E K M K A M E E K M K A M E E K M K A

EARI

ASP718ECORI

FIG. 8 //



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FIG. 12

NCOI CATGGAGGAGAGATGAMMA GCTC GAGAG AAGATGAAGC TCA TGAG GGTACCG STOP ASP718 ECORI BASE GENE
 CTCTCTTCTACTTTTCTA GCTTCTTCTACTTCCAGTACTTCACTATCCATGGCTTAA
 M E E K M K K L E E K M K V M K

OLIGONUCLEOTIDE INSERTS

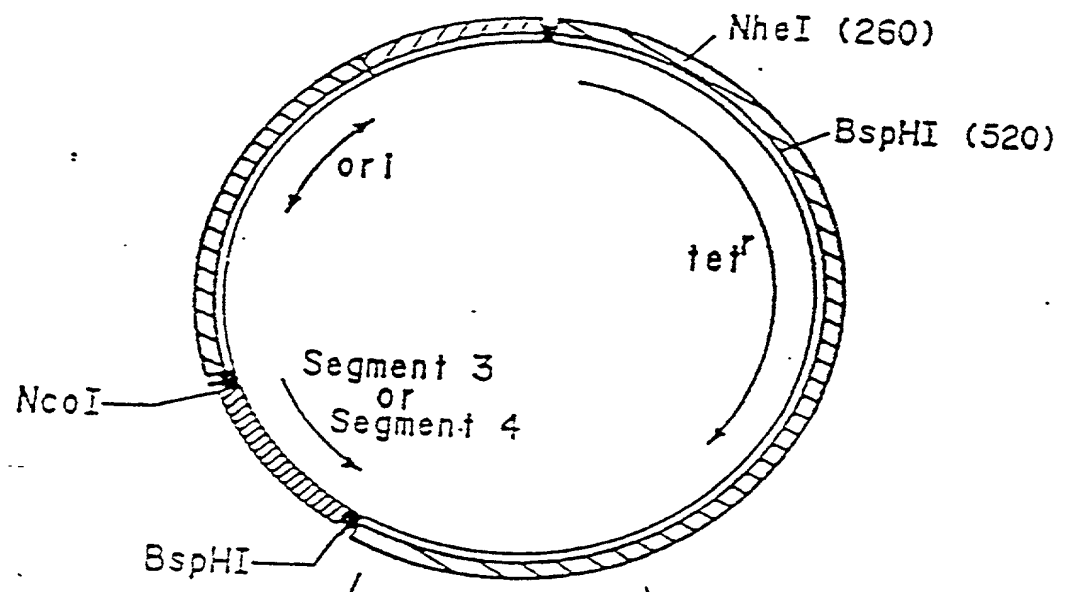
GCTGGAGAGAGATGAGGCTATGGAGGAGAGATGAMATGGCTTGAGGAGAGATGAGAG
 CTCTCTTCTACTTCCGATACCTCTGTTCTACTTTACCGAATCTCTTCTACTTCTCGA
 L E E K M K A M E E K M K W L E E K M K K

↓ OLIGOS LIGATED INTO EARI CUT BASE GENE

NCOI CATGGAGGAGAGATGAMMA GCTGGAGAGAGATGAGGCTATGGAGGAGAGATGAMATGGCTTGAGGAGAGATGAGAG
 CTCTCTTCTACTTTTCTA CTCTCTTCTACTTCCGATACCTCTGTTCTACTTTACCGAATCTCTTCTACTTCTCGA
 M E E K M K K L E E K M K A M E E K M K W L E E K M K K L
 EARI GAGAG MGATGAAGC TCA TGAG GGTACCG STOP ASP718 ECORI
 GCTTCTTCTACTTCCAGTACTTCACTATCCATGGCTTAA CLONE pSK34
 E E K M K V M K

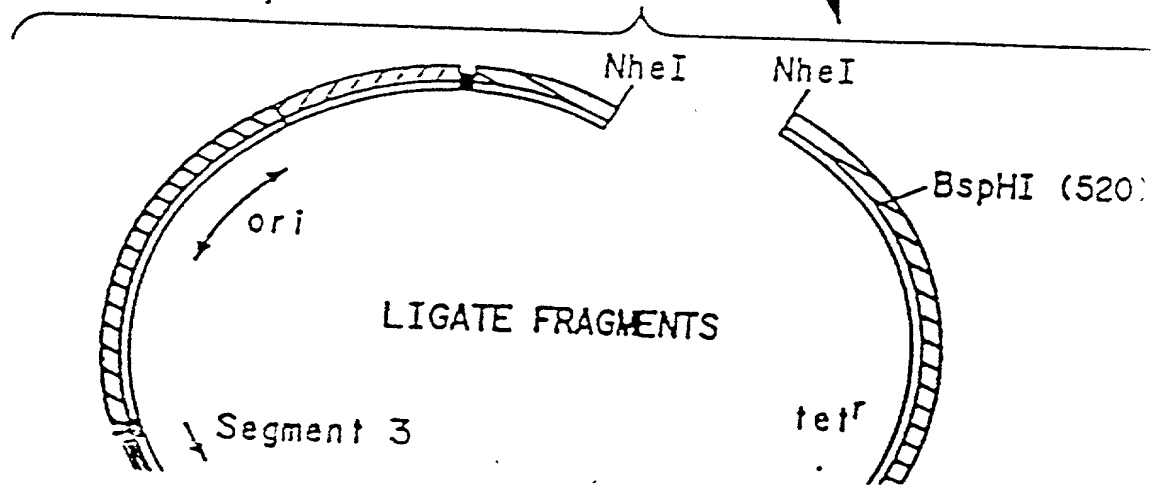
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FIG. ~~13A~~ 13A



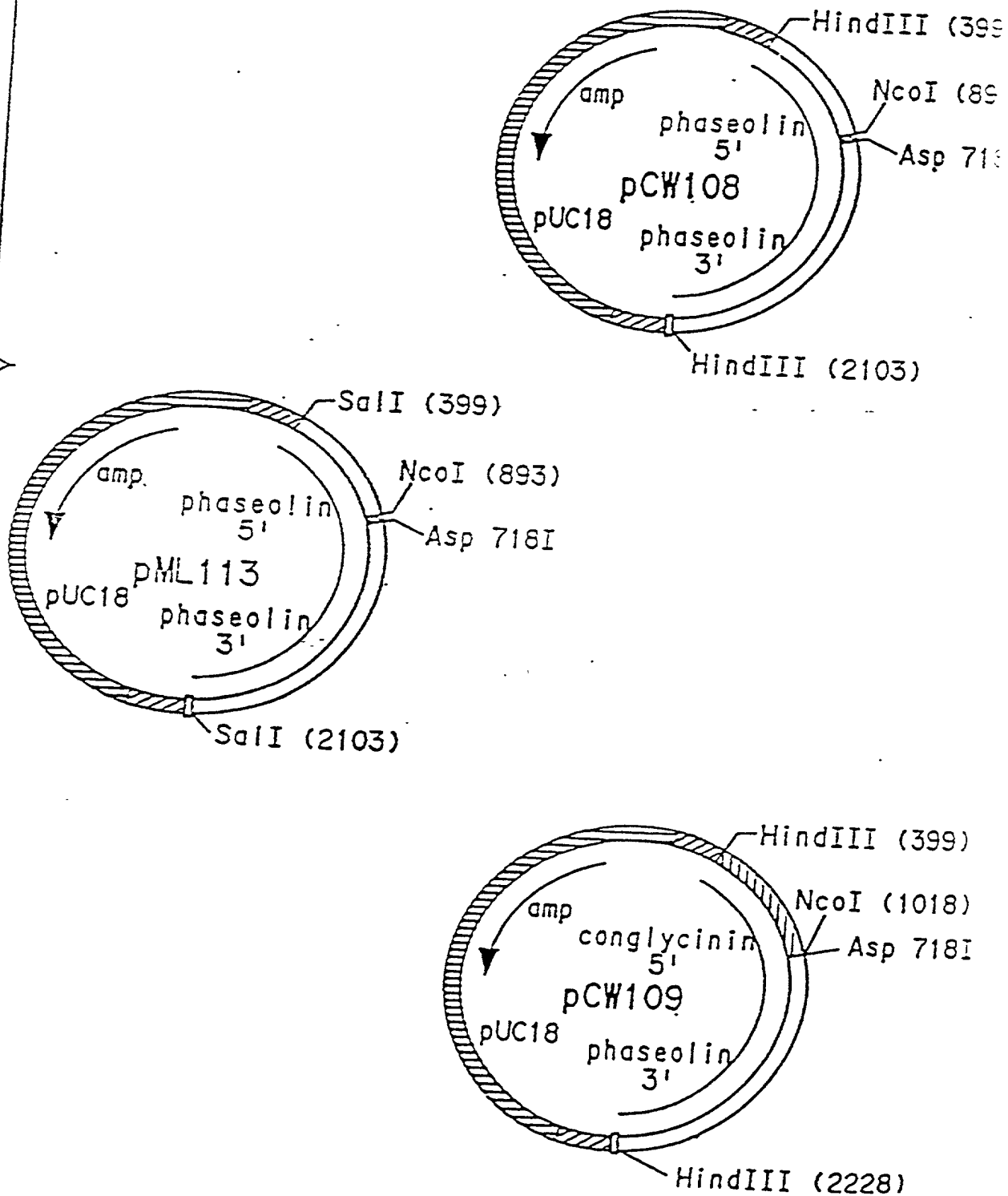
Segment 3 Digest NheI/BspHI Segment 4 Digest NheI/NcoI

FIG. ~~13B~~ 13B



~~12/14~~

FIG. ~~12~~ 14



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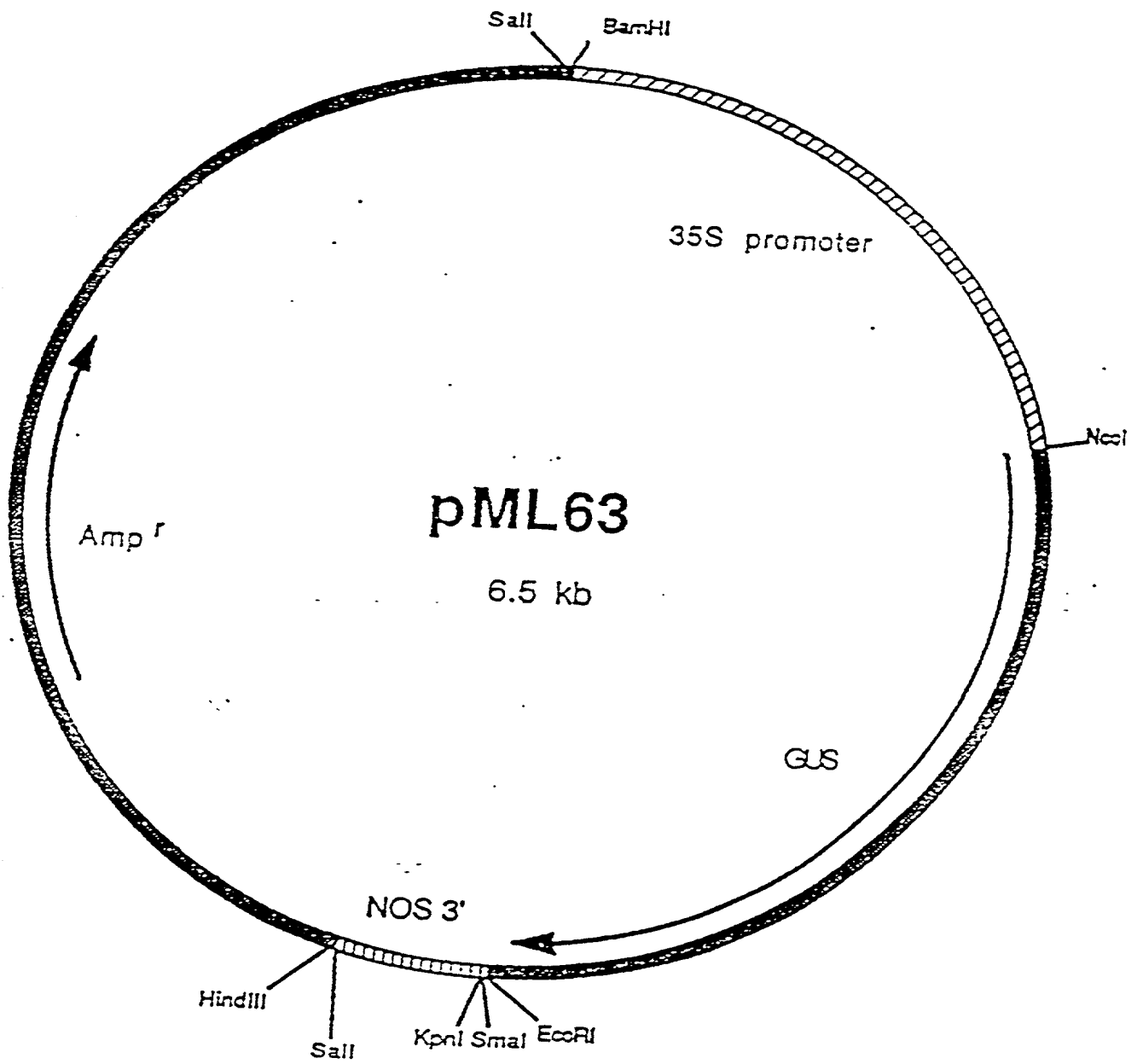


FIG. ~~14~~ 15

~~14~~/14

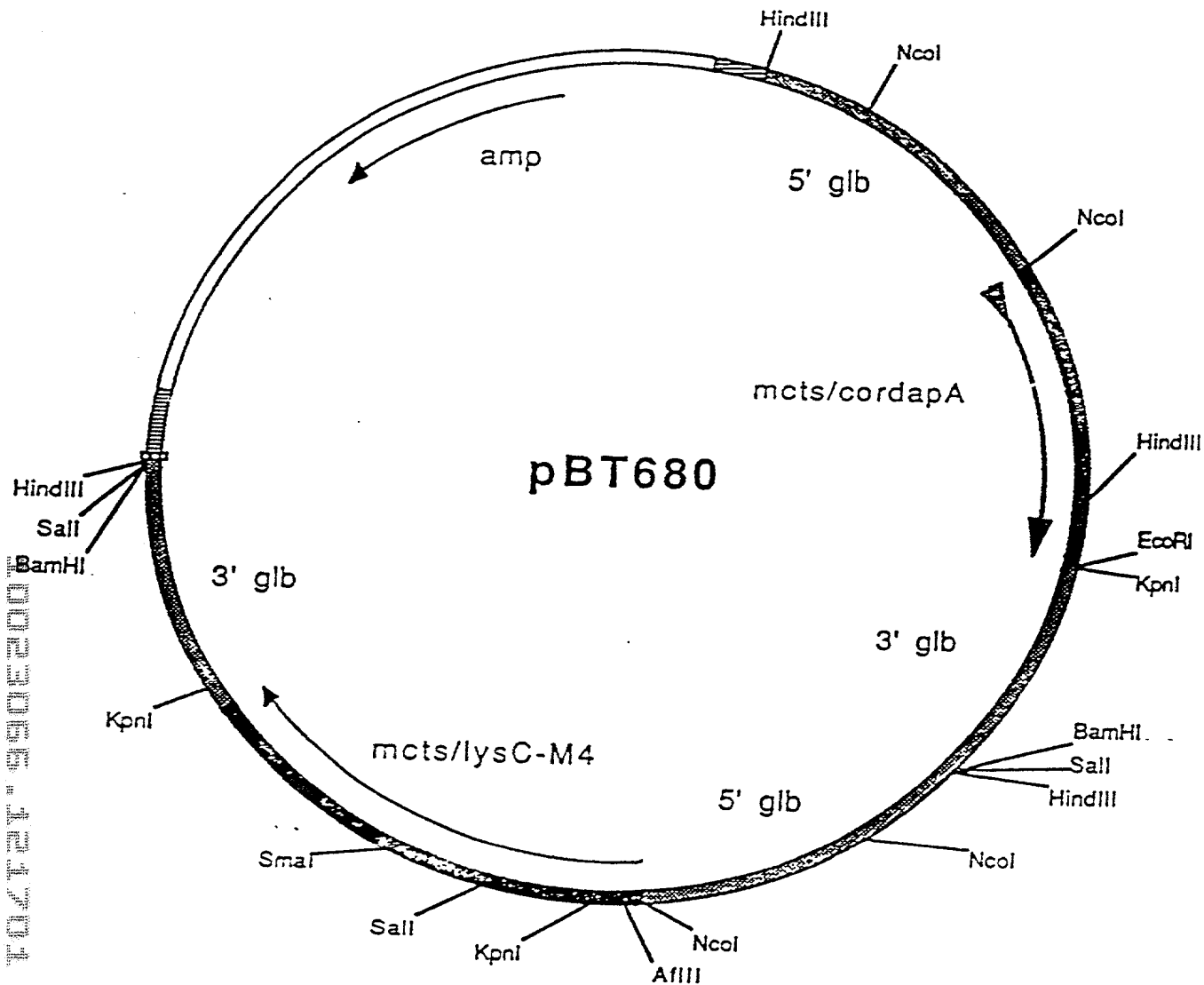


FIG. 16

FOOT-990E200T

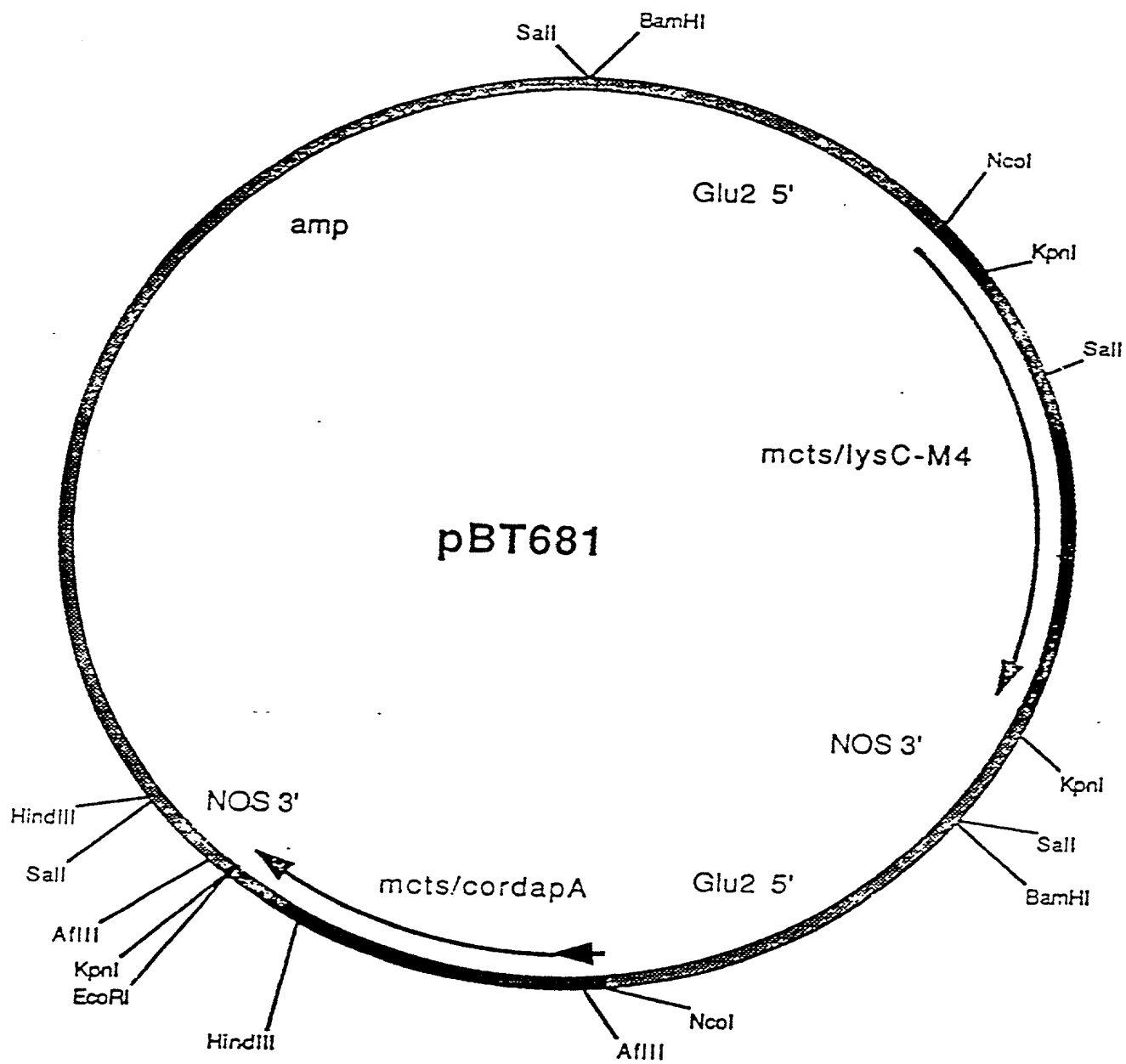


FIG. 17

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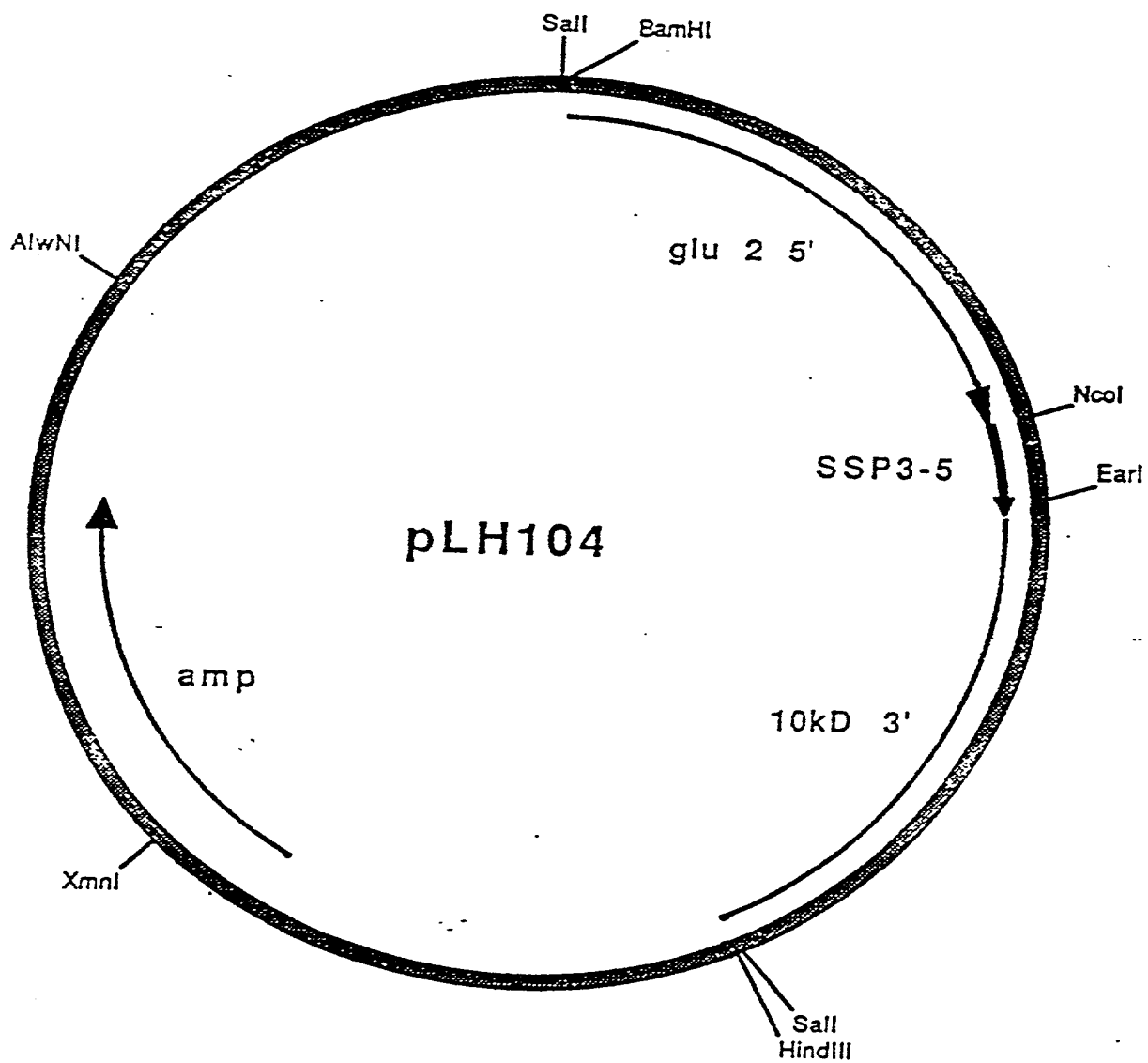


FIG. 18

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